

We claim:-

1. A laminating adhesive comprising as binder a mixture of
  - 5        A) a polymer obtainable by polymerizing free-radically polymerizable compounds, and
  - B) compounds containing ethylenically unsaturated, free-radically polymerizable groups (polymerizable groups for short) and having a weight-average molecular weight Mw of less than 5000 g/mol.
- 10      2. A laminating adhesive as claimed in claim 1, wherein the polymer is composed of at least 40% by weight of (meth)acrylates.
- 15      3. A laminating adhesive as claimed in claim 1 or 2, wherein the polymer is crosslinkable by irradiation with high-energy light.
- 20      4. A laminating adhesive as claimed in any of claims 1 to 3, wherein attached to the polymer is a photoinitiator.
5. A laminating adhesive as claimed in any of claims 1 to 4, wherein the polymer has an average molar weight which is at least twice as high as the molar weight of B).
- 25      6. A laminating adhesive as claimed in any of claims 1 to 5, wherein the polymer has a K value of from 10 to 90 (tetrahydrofuran, 1% strength by weight solution, 21°C).
7. A laminating adhesive as claimed in any of claims 1 to 6, wherein the polymer is a solution polymer.
- 30      8. A laminating adhesive as claimed in any of claims 1 to 7, wherein the compounds B) at 21°C and 1 bar are liquid and have a viscosity of from 0.05 to 50 Pas.

9. A laminating adhesive as claimed in any of claims 1 to 8, wherein the compounds B) comprise on average from 1 to 5 polymerizable groups per molecule.
- 5 10. A laminating adhesive as claimed in any of claims 1 to 9, wherein the polymerizable groups of the compounds B) are acryloyl or methacryloyl groups.
- 10 11. A laminating adhesive as claimed in any of claims 1 to 10, wherein the compounds B) are (meth)acrylic esters of polyhydric, unalkoxylated or alkoxylated alcohols.
- 15 12. A laminating adhesive as claimed in any of claims 1 to 11, wherein the weight fraction of the compounds B) is from 5 to 70% by weight, based on the total weight of A) +B).
13. A laminating adhesive as claimed in any of claims 1 to 12, comprising from 0.0001 to 1 mol of a photoinitiator or photoinitiator group per 100 g of the total weight of polymer A) and compounds B).
- 20 14. A laminating adhesive as claimed in any of claims 1 to 13, comprising less than 5 parts by weight of water or solvent, based on 100 parts by weight of the total weight of A) and B).
15. The use of a laminating adhesive as claimed in any of claims 1 to 14 for high gloss film lamination, i.e., for bonding transparent polymer films to paper or card.
- 25 16. The use of a laminating adhesive as claimed in any of claims 1 to 15 for composite film lamination, i.e., for bonding polymer films to other polymer films, metal foils or metallized films.
- 30 17. A method of adhesively bonding a UV or electron beam transparent film to another substrate, which comprises applying a laminating adhesive as claimed in any of claims 1 to 16 to at least one of the adherend substrates, bonding the

substrates and then irradiating the UV or electron beam transparent film with high-energy light.

18. A method as claimed in claim 18, wherein the UV or electron beam transparent film carries print.  
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19. A substrate assembly obtainable through the use of claim 15 or 16 or by a method as claimed in claims 17 or 18.